

CARLOTTA MONTORSI

Personal Information

Date of Birth: January 23rd, 1996
Place of Birth: Turin, Italy
Nationality: Italian

Contact Information

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DOCTORAL STUDIES

LISER/University of Luxembourg

*Ph.D. Candidate in **Computational Social Sciences***

Expected Defense Date: November 2024

***Supervisors:** Alessio Fusco, Philippe Van Kerm, Stéphane Bordas*

Belval, Luxembourg

September 2020 - present

Insubria University

*Ph.D. Candidate in **Economics** (Double Degree)*

***Supervisor:** Chiara Gigliarano*

Varese, Italy

September 2020 - present

University of Exeter

Visiting Researcher, Department of Economics

***Supervisor:** Dario Sansone*

Exeter, United Kingdom

March - June 2023

PRE-DOCTORAL STUDIES

Bocconi University

M.Sc. in Economics and Social Sciences

Milan, Italy

2017 - 2019

Bocconi University

B.Sc. in Management

Milan, Italy

2014 - 2017

PROFESSIONAL EXPERIENCE

The World Bank

International Technical Consultant, Education Global Practice

Remote

April 2024 - June 2024

Insubria University

Research Assistant, Economics Department

Varese, Italy

January 2020 - July 2020

Reiner Lemoine Institute

Intern, Off-Grid Systems Research Unit

Berlin, Germany

March 2019 - August 2019

TEACHING EXPERIENCE

Introduction to Machine Learning, University of Luxembourg

Joint with Professor Philippe Van Kerm

Winter 2023

RESEARCH INTERESTS

Big Data Analytics, Interpretable Machine Learning, Public Economics, Well-Being, Discrimination

PEER-REVIEWED PUBLICATIONS

Montorsi C., Gigliarano C. (2024), 'Spatial Comprehensive Well-Being Composite Indicators Based on Bayesian Latent Factor Model: Evidence from Italian Provinces' **Social Indicators Research**

Montorsi C., Fusco A., Van Kerm P., Bordas S. (2024), 'Predicting Depression in Old Age: Combining Life Course Data with Machine Learning' **Economics & Human Biology**

Media Coverage: Interview on Wort.lu; Science.lu; Luxembourg Digital Week

Montorsi C., Vaccaro A. (2022), ‘Quality of Government and Environmental Well Being across European Regions’ **Rivista Italiana di Economia Demografia e Statistica**

Figari F., Fiorio C., Gandullia L., Montorsi C. (2020), ‘The resilience of the Italian social protection system at the beginning of COVID-19 crisis: territorial evidence’ **Journal of Economic Policy**

SELECTED ONGOING PROJECTS

Small Pictures, Big Biases: The Adverse Effects of an Airbnb Anti-discrimination policy with Garbers, J. (Since January 2022)

I combine state-of-the-art machine learning models and big data analytics, such as BERT-Transformer for text classification, unsupervised text clustering, and Vision Transformer (ViT) for image classification, with a difference-in-differences design. The project evaluates the impact of a design transformation on the Airbnb platform on the disparities in occupancy rates between white and ethnic minority hosts.

The Old Folks at Home: Parental Retirement and Adult Children well-being with Clark, A. (Since September 2022)

I assess the causal impact of retirement and pension reforms on inter-generational well-being, utilizing fuzzy regression discontinuity and difference-in-differences designs. This research sheds light on the broader spillover consequences of welfare reforms.

POLICY WORK

Figari F., Montorsi C. (2020) **LombardMOD 2016-2019: un modello di microsimulazione fiscale per la regione Lombardia**

Figari F., Montorsi C. (2020) **LigurMOD 2016-2019: un modello di microsimulazione fiscale per la regione Liguria**

ACADEMIC ACTIVITIES

Invited presentations

- CMStatistics, Berlin, Germany 2023
- University of Antwerp, CSB Lunch Seminar 2023

Conference, Seminar and workshops

- 36th EALE Conference, Bergen, Norway 2024
- 37th ESPE Conference, Rotterdam, the Netherlands 2024
- III LABORatorio Revelli Biannual Workshop, Turin, Italy 2023
- LISER Internal Seminar Series, Luxembourg 2023
- 10th ECINEQ Meeting, Aix-en-Provence, France 2023
- Competence Centre for Data Science and Simulation (DSS), Belval, Luxembourg 2023
- LIVES Workshop ‘Cognition, decisions and wellbeing in later life’, Losanna, Switzerland 2022
- 7th SHARE User Conference, Bled, Slovenia 2022
- STATEC-Well Being Conference, Luxembourg 2022
- Ph.D. Conference in Social Sciences, Belval, Luxembourg 2022
- IRSEI Brown-Bag Seminar, Belval, Luxembourg 2022
- Machine Learning Seminar, Faculty of Science and Technology, Luxembourg 2021

Training

- Canazei Winter School on Inequality and Social Welfare 2023 and 2024
- Luxembourg Income Study (LIS) Summer Work-shop 2021
- SEAI Spatial Econometrics Summer School 2021
- InGRID-2 Winter school 'Recent advances in poverty and inequality research' 2021
- Introduction to EUROMOD: Tax and benefit microsimulation models for EU-28 2020

Refereeing Activity:

- Peer-reviewed: *The Italian Journal of Economic, Demographic and Statistical Studies; Social Indicators Research*

COMPUTER SKILLS

Advanced: **R, Python, Stata, LaTeX**

Intermediate: **High Performance Computing (HPC), EUROMOD**

Office Suite: proficient in Word, Excel, and PowerPoint.

LANGUAGES

Italian (Native), **English C1** (Proficient), **Spanish B2** (Advanced)